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C. A. Plexman

Information Report O-X-388
Great Lakes Forestry Centre

88-03623/

THE GREAT LAKES FORESTRY CENTRE

The Great Lakes Forestry Centre is one of six regional establishments located across Canada and operated by the Canadian Forestry Service. The overall objective of the Service is to promote the preservation, enhancement and wise use of a healthy, attractive and bountiful forest resource and terrestrial environment for the economic and social benefit of all Canadians. The Centre pursues this objective by conducting two major programs: research and technical services and forestry development. Both programs address major problems affecting forest management and the forest environment primarily in Ontario, but because of the transprovincial nature of the forest resource, many elements of our research program are of national significance.

The Centre specializes in research in forest production, forest protection, forest environment and forest utilization. These programs deal directly with the issue of maintaining and enhancing the resource supply. Activities range from basic to applied and developmental research, and include a significant technology transfer component.

Major activities in forestry development include federal management responsibility for federal-provincial forest management agreements, participation in the National Forestry Statistics program and forest economics research.

Close working relationships are maintained with the Ontario Ministry of Natural Resources, the forest industry, educational institutions specializing in forestry and the biological sciences, and other forestry organizations within the province. The Centre is represented on the Ontario Forestry Council and the Ontario Forestry Research Committee, which have responsibility for coordinating forestry research in Ontario.

It is recognized that forested land must be managed in the best public interest, not only for the wood production essential to our economy, but also for the recreational purposes that are so important to our social well-being. This must be achieved in a manner that will maintain or improve the quality of the forest environment and preserve it for generations to come.

BIBLIOGRAPHY OF GREAT LAKES FORESTRY CENTRE

PUBLICATIONS 1983 - 1987

C.A. PLEXMAN

GREAT LAKES FORESTRY CENTRE

CANADIAN FORESTRY SERVICE

GOVERNMENT OF CANADA

1987

INFORMATION REPORT O-X-388

Minister of Supply and Services Canada 1987
Catalogue No. Fo 46-14/388E
ISBN 0-662-15775-3
ISSN 0832-7122

Copies of this publication are available at no charge from:

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ABSTRACT

This bibliography is a catalogue of the scientific, technical and popular literature published by staff members of the Great Lakes Forestry Centre, Sault Ste. Marie, Ontario, from 1983 to 1987. It includes journal papers, Information Reports, Joint Reports, Miscellaneous Reports, Survey Bulletins, contributions to symposium proceedings, leaflets, pamphlets and Forestry Newsletter articles. A subject index is provided for all main entries. The Appendix lists Information Reports, Joint Reports and Miscellaneous Reports in sequential order.

RÉSUMÉ

Ce document est le catalogue de tous les travaux, scientifiques, techniques ou populaires, publiés par le personnel du Centre de foresterie des Grands Lacs à Sault Ste-Marie, Ontario de 1983 à 1987. On y trouve des articles de revues, des rapports d'information, des rapports conjoints, des rapports diverses, des Survey Bulletin, des contributions aux comptes rendus de colloques, des brochures, des dépliants et des articles du Bulletin de Foresterie. Le document comprend un index des sujets pour les notices principales. À l'annexe, on trouve la liste des rapports d'information, des rapports conjoints et des rapports diverses par ordre numérique.

FOREWORD

The first "Bibliography of Great Lakes Forest Research Centre Publications", a volume that covered the period from 1965 to 1977, was published in 1977, and from 1978 to 1982 annual supplements were issued. In 1982 the second "Bibliography of Great Lakes Forest Research Centre Publications", covering the period from 1978 to 1982, was produced, and it was followed by annual supplements from 1983 to 1987. The present volume incorporates all entries cited in the 1983-1987 supplements. During that time, the name of the Centre was changed to Great Lakes Forestry Centre.

This Bibliography is intended to serve primarily as a reference source of research undertaken, and publications issued, by the Great Lakes Forestry Centre between 1983 and 1987. Included as main entries are journal papers, Information Reports, Joint Reports, Miscellaneous Reports, Survey Bulletins, contributions to symposium proceedings, leaflets, pamphlets, and articles in the Forestry Newsletter. Cross references have been provided for junior authors. The main entries are listed alphabetically by author and chronologically for each author. The surnames of authors employed by the Great Lakes Forestry Centre appear in upper case; those of authors not affiliated with the Centre are printed with initial letters only in upper case.

A subject index, based largely on keywords obtained from the titles of the publications, follows the main entries.

The Appendix is a sequential list of Information Reports, Joint Reports, and Miscellaneous Reports published during the period.

This Bibliography is not to be considered an order list for publications, as many of the publications listed are now out of print. However, every effort will be made to provide readers with information on the subjects covered in this report and on the research that is being conducted at the Centre. Requests for information should be directed to:

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terminal shoots, injury to: GROSS 1983

terminology, root: SUTTON and Tinus 1984

thinning: Bax and van Damme 1987; GROOT et al. 1984; SMITH, C.R. 1984, 1985b

thinning, precommercial: SMITH, C.R. 1987, SMITH, C.R. et al. 1985

timber supply: van Wagner 1985

tolerant hardwoods: FOSTER and NICOLSON 1984, 1986

toxicity: RICHARDS, W.R. and TAKAI 1984

trace elements: FOSTER and NICOLSON 1986

tree improvement: Cheliak 1987a, Day 1987b, Miller, L.K. 1984, PLEXMAN 1986a

tree production centres: SMYTH and BROWNWRIGHT 1984

tree response: GROOT et al. 1984

Trichogramma minutum: WALLACE 1986

Turkey, forestry in: RILEY 1985a

Turkey Lakes Forest Watershed: FOSTER and NICOLSON 1983, FOSTER et al. 1983

U

Ulmus americana: TAKAI and Hiratsuka 1984

underground greenhouses: SMITH, G.K.M. 1987b

underground planting: SMITH, G.K.M. 1987b

underplanting: SUTTON 1986

unemployment insurance: MacNAUGHTON 1986
see also job creation programs, forestry

university research: SMITH, G.K.M. 1987d

uplands: FLEMING and Crossfield 1983, JEGLUM 1983, WOOD and JEGLUM 1984

urea: FOSTER and Beauchamp 1986, FOSTER et al. 1985a,b

urea fertilization: *see* fertilization, urea

utilization, wood: BASHAM 1984

values, forest: Gagnon and Kincaid 1985, Gardiner 1984, 1987

vegetational physiognomy: SIMS et al. 1982a,b

vegetation management: *see* management, forest; management, vegetation

vertical transmission of disease: *see* diseases, vertical transmission of

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water quality: FOSTER and NICOLSON 1984

weather: DORWORTH, C.E. 1985, SANDERS and LUCUIK 1985
see also fire weather

weed control: VON ALTHEN 1984, 1985a

wetland ecosystems: *see* wetlands

wetlands: JEGLUM et al. 1982, 1983; SIMS et al. 1983a,b

white ash: see *Fraxinus americana*

white elm: see *Ulmus americana*

white pine: see *Pinus strobus*

white pine blister rust: see *Cronartium ribicola*

white pine weevil: see *Pissodes strobi*

white spruce: see *Picea glauca*

whole-tree harvesting: *see* harvesting

wildfire: Brown 1984a, STOCKS and Street 1983

wildlife: Cumming and Barnes 1987, MacInnes and Voigt 1986, Welsh 1983

wildlife policy: Roseborough and Post 1985

windfall: FLEMING and Crossfield 1983

wind tunnels: SANDERS 1985a,b

wood delivery: JOHNSON, J.D. 1985a

woodlots: VON ALTHEN 1983a

wood markets: JOHNSON, J.D. 1985b

wood quality: *see* quality, wood

wood utilization: *see* utilization, wood

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yellow birch: see *Betula alleghaniensis*

yield functions: PAYANDEH and FIELD 1986

APPENDIX

Information Reports published by the Great Lakes Forestry Centre are listed below in sequential order.

O-X-345 PLEXMAN, C.A. 1982. Bibliography of Great Lakes Forest Research Centre publications 1978-1982. Dep. Environ., Can. For. Serv., Sault Ste. Marie, Ont. 81 p. + appendices.

O-X-346 WHITNEY, R.D. and Timmer, V.R. 1983. Chlorosis in planted white spruce at Limestone Lake, Ontario. Dep. Environ., Can. For. Serv., Sault Ste. Marie, Ont. 16 p.

O-X-347 GROSS , H.L. 1983. Injuries to terminal shoots cause multiple-leadered nursery seedlings. Dep. Environ., Can. For. Serv., Sault Ste. Marie, Ont. 12 p.

O-X-348 WEBB, D.P., Ellis, R.C. and Hallam, P.M. 1983. Growth check of *Eucalyptus delegatensis* (R.T. Baker) regeneration at high altitudes in northeastern Tasmania. Dep. Environ., Can. For. Serv., Sault Ste. Marie, Ont. 55 p.

O-X-349 MEATING, J.H., LAWRENCE, H.D., HOWSE, G.M. and Carrow, J.R. 1983. The 1982 spruce budworm situation in Ontario. Part A: Damage and forecasts. Part B: Aerial spraying operations. Dep. Environ., Can. For. Serv., Sault Ste. Marie, Ont. 75 p.

O-X-350 HOWSE, G.M., SYME, P.D., GROSS, H.L., MYREN, D.T., MEATING, J.H., APPLEJOHN, M.J. and SMITH, K.L. 1983. Forest insect and disease conditions in Ontario, 1982. Dep. Environ., Can. For. Serv., Sault Ste. Marie, Ont. 41 p.

O-X-351 VON ALTHEN, F.W. 1983. Animal damage to hardwood regeneration and its prevention in plantations and woodlots of southern Ontario. Dep. Environ., Can. For. Serv., Sault Ste. Marie, Ont. 28 p.

O-X-352 MEATING, J.H., LAWRENCE, H.D., Cunningham, J.C. and HOWSE, G.M. 1983. The 1982 gypsy moth situation in Ontario: general surveys, spray trials and forecasts for 1983. Dep. Environ., Can. For. Serv., Sault Ste. Marie, Ont. 14 p.

O-X-353 FOSTER, N.W. and MORRISON, I.K. 1983. Soil fertility, fertilization and growth of Canadian forests. Dep. Environ., Can. For. Serv., Sault Ste. Marie, Ont. 21 p.

O-X-354 FLEMING, R.L. and Crossfield, R.M. 1984. Strip cutting in shallow-soil upland black spruce near Nipigon, Ontario. III. Windfall and mortality in the leave strips: preliminary results. Dep. Environ., Can. For. Serv., Sault Ste. Marie, Ont. 27 p. + Appendix.

O-X-355 WOOD, J.E. 1983. Five-year comparison of jack pine bare-root, Ontario tube, and paperpot seedlings. Dep. Environ., Can. For. Serv., Sault Ste. Marie, Ont. 13 p. + Appendix.

O-X-356 WOOD, J.E. 1984. Black spruce outplantings in Ontario's Clay Belt. Bare-root versus paperpot stock: five-year results. Dep. Environ., Can. For. Serv., Sault Ste. Marie, Ont. 11 p. + Appendix.

O-X-357 SMYTH, J.H. and BROWNWRIGHT, A.J. 1984. Forest tree production centres in Canada--1983. Dep. Environ., Can. For. Serv., Sault Ste. Marie, Ont. 45 p. + appendices.

O-X-358 GROOT, A. 1984. Stand and site conditions associated with abundance of black spruce advance growth in the Northern Clay Section of Ontario. Dep. Environ., Can. For. Serv., Sault Ste. Marie, Ont. 15 p.

O-X-359 JEGLUM, J.K. 1984. Strip cutting in shallow-soil upland black spruce near Nipigon, Ontario. IV. Seedling-seedbed relationships. Dep. Environ., Can. For. Serv., Sault Ste. Marie, Ont. 26 p.

O-X-360 SCARRATT, J.B. 1984. Considerations in the selection of a growing medium for the aerial dart seeding system. Dep. Environ., Can. For. Serv., Sault Ste. Marie, Ont. 22 p. + appendices.

O-X-361 WOOD, J.E. and JEGLUM, J.K. 1984. Black spruce regeneration trials near Nipigon, Ontario: planting versus seeding, lowlands versus uplands, clearcut versus strip cut. Dep. Environ., Can. For. Serv., Sault Ste. Marie, Ont. 19 p.

O-X-362 FLEMING, R.L. and Lister, S.A. 1984. Stimulation of black spruce germination by osmotic priming: laboratory studies. Dep. Environ., Can. For. Serv., Sault Ste. Marie, Ont. 15 p. + Appendix.

O-X-363 GROSS, H.L. 1985. Multiple-leadered trees compare favorably with single-leadered trees in field performance tests of nursery stock. Gov't. of Can., Can. For. Serv., Sault Ste. Marie, Ont. 10 p.

O-X-364 PAYANDEH, B. and FIELD, J.E. 1985. FIDME: Forestry Investment Decisions Made Easy. Gov't of Can., Can. For. Serv., Sault Ste. Marie, Ont. 22 p.

O-X-365 VON ALTHEN, F.W. 1985. Spacing trials in black walnut, white ash and silver maple plantations. Gov't of Can., Can. For. Serv., Sault Ste. Marie, Ont. 14 p.

O-X-366 GROSS, H.L. 1985. The impact of insects and diseases on the forests of Ontario. Gov't of Can., Can. For. Serv., Sault Ste. Marie, Ont. 96 p. + Appendix.

O-X-367 McRAE, D.J. 1985. Prescribed burning of boreal mixedwood slash in the Ontario Clay Belt Region. Gov't of Can., Can. For. Serv., Sault Ste. Marie, Ont. 18 p.

O-X-368 WOOD, J.E. and Dominy S.W.J. 1985. Black spruce, white spruce and jack pine outplantings in boreal Ontario: bare-root vs paperpot stock and spring vs summer planting. Gov't of Can., Can. For. Serv., Sault Ste. Marie, Ont. 67 p. + appendices.

O-X-369 SUTTON, R.F. 1985. Vegetation management in Canadian forestry. Gov't of Can., Can. For. Serv., Sault Ste. Marie, Ont. 34 p. + Appendix.

O-X-370 FLEMING, R.L., FOREMAN, F.F. and RÉGNIÈRE J. 1985. Black spruce seed distribution with the Brohm Seeder/Piper PA-18A aircraft combination. Gov't of Can., Can. For. Serv., Sault Ste. Marie, Ont. 24 p. + Appendix.

O-X-371 GROOT, A. 1985. Application of germination inhibitors in organic solvents to conifer seeds. Gov't of Can., Can. For. Serv., Sault Ste. Marie, Ont. 14 p.

O-X-372 Puttock, G.D. and SMITH, C.R. 1986. An evaluation of site preparation with the Donaren 180D Powered Disc Trencher on full-tree logged sites. Gov't of Can., Can. For. Serv., Sault Ste. Marie, Ont. 24 p. + appendices.

O-X-373 PAYANDEH, B. 1986. Predictability of site index from soil factors and lesser vegetation in northern Ontario forest types. Gov't of Can., Can. For. Serv., Sault Ste. Marie, Ont. 12 p. + appendices.

O-X-374 VON ALTHEN, F.W. 1986. Effects of planting date on outplant performance of cold-stored and fresh-lifted black walnut, red oak and silver maple seedlings. Gov't of Can., Can. For. Serv., Sault Ste. Marie, Ont. 9 p.

O-X-375 PAYANDEH, B. and FIELD, J.E. 1986. Yield functions and tables for mixedwood stands in northwestern Ontario. Gov't of Can., Can. For. Serv., Sault Ste. Marie, Ont. 7 p. + appendices.

O-X-376 MYREN, D.T. and DORWORTH, E.B. 1986. Names and authors used for fungi at the Great Lakes Forestry Centre. Gov't of Can., Can. For. Serv., Sault Ste. Marie, Ont. 42 p. + Appendix.

O-X-377 SCARRATT, J.B. 1986. An evaluation of some commercial soluble fertilizers for culture of jack pine container stock. Gov't of Can., Can. For. Serv., Sault Ste. Marie, Ont. 21 p. + appendices.

O-X-378 SMYTH, J.H. and BROWNWRIGHT, A.J. 1986. Forest tree production centres in Canada - 1984. Gov't of Can., Can. For. Serv., Sault Ste. Marie, Ont. 52 p. + appendices.

O-X-379 Puttock, G.D. and SMITH, C.R. 1987. Evaluation of site preparation with Young's Teeth on sites with dense residual poplars. Gov't of Can., Can. For. Serv., Sault Ste. Marie, Ont. 22 p. + appendices.

O-X-380 JOHNSON, J.D. and SMYTH, J.H. 1987. Harvesting and renewal costs of stripcutting relative to those of clearcutting on shallow-soil upland black spruce sites in north central Ontario. Gov't of Can., Can. For. Serv., Sault Ste. Marie, Ont. 15 p.

O-X-381 LEBLANC, J-D. and SUTHERLAND, B.J. 1987. Comparative evaluation of seven site preparation tools in a residual poplar mixedwood stand in Saskatchewan. Gov't of Can., Can. For. Serv., Sault Ste. Marie, Ont. 43 p. + appendices.

O-X-382 LYSYK, T.J. and SANDERS, C.J. 1987. A method for sampling endemic populations of the spruce budworm (Lepidoptera: Tortricidae) based on proportion of empty sample units. Gov't of Can., Can. For. Serv., Sault Ste. Marie, Ont. 17 p.

O-X-383 SUTTON, R.F. 1987. Plantation establishment in boreal Ontario: a study of spring planting and mechanization. Gov't of Can., Can. For. Serv., Sault Ste. Marie, Ont. 26 p.

O-X-384 GROOT, A. 1987. Silvicultural consequences of forest harvesting on peatlands: site damage and slash conditions. Gov't of Can., Can. For. Serv., Sault Ste. Marie, Ont. 20 p.

O-X-385 FLEMING, R.L., MOSSA, D.S. and Burns, T.R. 1987. Scarification trials for direct seeding on upland black spruce sites in northwestern Ontario. Gov't of Can., Can. For. Serv., Sault Ste. Marie, Ont. 43 p. + appendices. (in press)

O-X-386 BALLAK, A.J.F. 1987. Bibliography of reports produced under the Assessment Program of the Canada-Ontario Forest Management Subsidiary Agreement, 1978-1986. Gov't of Can., Can. For. Serv., Sault Ste. Marie, Ont. 29 p.

O-X-387 SMYTH, J.H. and CAMPBELL, K.L. 1987. Selected forestry statistics, Ontario: 1987. Gov't of Can., Can. For. Serv., Sault Ste. Marie, Ont. 106 p. + Appendix.

Joint Reports issued by the Great Lakes Forestry Centre are listed below in sequential order.

Joint Report No. 1. SMYTH, J.H., RAMSAY, K.L. and Barron, D.E. 1984. Forest management expenditures in Canada 1977-1981. Dep. Environ., Can. For. Serv., Sault Ste. Marie, Ont. (Inf. Rep. W.S. Index 2918 (F-11) Canadian Pulp and Paper Association) 99 p. (aussi disponible en français sous le titre "Dépenses en aménagement forestier (1977-1981").

Joint Report No. 2. Horton, K.W. 1984. Mechanizing cone collection of black spruce in Ontario. Gov't. of Can., Can. For. Serv., Sault Ste. Marie, Ont. (Published in cooperation with the Ontario Ministry of Natural Resources). 16 p.

Joint Report No. 3. WEBB, D.P. and Reese, K.H. 1984. Multiple leadering of coniferous nursery stock. Gov't. of Can., Can. For. Serv., Sault Ste. Marie, Ont. (Published in cooperation with the Ontario Ministry of Natural Resources). 8 p.

Joint Report No. 4. WOOD, J.E. and Colombo, S.J., *Comp.* 1984. A registry of containerized tree seedling research in Ontario: 1982-1983. Gov't. of Can., Can. For. Serv., Sault Ste. Marie, Ont. 23 p. + appendices. (produced under the auspices of the Canada-Ontario Joint Forestry Research Committee)

Joint Report No. 5. SCARRATT, J.B. 1985. Containerized seedling production statistics for Ontario, 1982. Gov't. of Can., Can. For. Serv., Sault Ste. Marie, Ont. 16 p. (produced under the auspices of the Container Stock Working Group of the Canada-Ontario Joint Forestry Research Committee)

Joint Report No. 6. SMITH, C.R., Ryans, M. and LeBLANC, J-D. 1985. Evaluation of the effect of tree-length and full-tree harvesting on the performance of three scarifiers. A Joint Report of the Great Lakes Forestry Centre and the Forest Engineering Research Institute of Canada. Gov't. of Can., Can. For. Serv., Sault Ste. Marie, Ont. Joint Rep. No. 6 (FERIC Rep. No. SR-26). 38 p. + appendices.

Joint Report No. 7. SCARRATT, J.B. 1985. Containerized seedling production statistics for Ontario, 1983. Gov't of Can., Can. For. Serv., Sault Ste. Marie, Ont. 19 p. (Published under the auspices of the Container Stock Working Group of the Canada-Ontario Joint Forestry Research Committee)

Joint Report No. 8. SCARRATT, J.B. 1985. Containerized seedling production statistics for Ontario, 1983. Gov't of Can., Can. For. Serv., Sault Ste. Marie, Ont. 23 p. (Published under the auspices of the Container Stock Working Group of the Canada-Ontario Joint Forestry Research Committee)

Joint Report No. 9. Barron, D.E., SMYTH, J.H., CAMPBELL, K.L. and Martel, J-P. 1986. Forest management expenditures in Canada, 1977-1983. Can. Pulp Pap. Assoc., Woodlands Sect., Montreal and Can. For. Serv., Great Lakes Forestry Centre, Sault Ste. Marie, Ont. 85 p.

Joint Report No. 10. SCARRATT, J.B. 1987. Containerized seedling production statistics for Ontario, 1985. Gov't. of Can., Can. For. Serv., Sault Ste. Marie, Ont. 21 p.

Miscellaneous Reports issued by the Great Lakes Forestry Centre are listed below in sequential order.

Misc. Rep. No. 1. SAJAN, R.J. and CONSTABLE, D.C. 1984. Results of forest insect and disease surveys in the Northwestern Region of Ontario, 1983. Dep. Environ., Can. For. Serv., Sault Ste. Marie, Ont. 41 p.

Misc. Rep. No. 2. BIGGS, W.D. and JANSONS, V. 1984. Results of forest insect and disease surveys in the North Central Region of Ontario, 1983. Dep. Environ., Can. For. Serv., Sault Ste. Marie, Ont. 30 p.

Misc. Rep. No. 3. MacLEOD, L.S., JONES, C.G. and KEIZER, A.J. 1984. Results of forest insect and disease surveys in the Northern Region of Ontario, 1983. Dep. Environ., Can. For. Serv., Sault Ste. Marie, Ont. 37 p.

Misc. Rep. No. 4. THOMSON, M.J., CZERWINSKI, E.J., MacLEOD, L.S. and JANSONS, V. 1984. Results of forest insect and disease surveys in the Northeastern Region of Ontario, 1983. Dep. Environ., Can. For. Serv., Sault Ste. Marie, Ont. 39 p.

Misc. Rep. No. 5. BRODERSEN, H. and LAWRENCE, H.D. 1984. Results of forest insect and disease surveys in the Algonquin Region of Ontario, 1983. Dep. Environ., Can. For. Serv., Sault Ste. Marie, Ont. 25 p.

Misc. Rep. No. 6. EVANS, H.J., BARNES, C.A., LAWRENCE, H.D. and WEIR, H.J. 1984. Results of forest insect and disease surveys in the Central Region of Ontario, 1983. Dep. Environ., Can. For. Serv., Sault Ste. Marie, Ont. 31 p.

Misc. Rep. No. 7. BARNES, C.A. and EVANS, H.J. 1984. Results of forest insect and disease surveys in the Southwestern Region of Ontario, 1983. Dep. Environ., Can. For. Serv., Sault Ste. Marie, Ont. 27 p.

Misc. Rep. No. 8. INGRAM, W.A. 1984. Results of forest insect and disease surveys in the Eastern Region of Ontario, 1983. Dep. Environ., Can. For. Serv., Sault Ste. Marie, Ont. 33 p.

Misc. Rep. No. 9. WEIR, H.J., THOMSON, M.J., CONSTABLE, D.C. and JONES, C.G. 1984c. A review of important forest insect and disease problems in the Sault Ste. Marie District of Ontario, 1950-1980. Dep. Environ., Can. For. Serv., Sault Ste. Marie, Ont. 143 p. + appendices.

Misc. Rep. No. 10. WEIR, H.J., THOMSON, M.J., CONSTABLE, D.C. and JONES, C.G. 1984a. A review of important forest insect and disease problems in the Espanola District of Ontario, 1950-1980. Dep. Environ., Can. For. Serv., Sault Ste. Marie, Ont. 152 p. + appendices.

Misc. Rep. No. 11. WEIR, H.J., THOMSON, M.J., CONSTABLE, D.C. and JONES, C.G. 1984c. A review of important forest insect and disease problems in the Wawa District of Ontario, 1950-1980. Dep. Environ., Can. For. Serv., Sault Ste. Marie, Ont. 113 p. + appendices.

Misc. Rep. No. 12. WEIR, H.J., THOMSON, M.J., CONSTABLE, D.C. and JONES, C.G. 1984d. A review of important forest insect and disease problems in the Sudbury District of Ontario, 1950-1980. Dep. Environ., Can. For. Serv., Sault Ste. Marie, Ont. 149 p. + appendices.

Misc. Rep. No. 13. SMYTH, J.H. and RAMSAY, K.L. 1984. Selected forestry statistics, Ontario: 1984. Gov't. of Can., Can. For. Serv., Sault Ste. Marie, Ont. 104 p.

Misc. Rep. No. 14. WEIR, H.J, THOMSON, M.J., CONSTABLE, D.C. and JONES, C.G. 1984b. A review of important forest insect and disease problems in the North Bay District of Ontario, 1950-1980. Dep. Environ., Can. For. Serv., Sault Ste. Marie, Ont. 150 p. + appendices.

Misc. Rep. No. 15. JOHNSON, J.D. 1984. Effect of tariff reductions on the Canadian fine paper industry. Dep. Environ., Can. For. Serv., Sault Ste. Marie, Ont. 19 p.

Misc. Rep. No. 16. HOWSE, G.M. and APPLEJOHN, M.J. 1984a. Forest insect and disease conditions in Ontario, 1983. Gov't. of Can., Can. For. Serv., Sault Ste. Marie, Ont. 53 p.

Misc. Rep. No. 17. CONSTABLE, D.C. 1985. Results of forest insect and disease surveys in the Northwestern Region of Ontario, 1984. Gov't. of Can., Can. For. Serv., Sault Ste. Marie, Ont. 29 p.

Misc. Rep. No. 18. BIGGS, W.D. and JANSONS, V. 1985. Results of forest insect and disease surveys in the North Central Region of Ontario, 1984. Gov't. of Can., Can. For. Serv., Sault Ste. Marie, Ont. 30 p.

Misc. Rep. No. 19. MacLEOD, L.S., JONES, C.G. and KEIZER, A.J. 1985. Results of forest insect and disease surveys in the Northern Region of Ontario, 1984. Gov't. of Can., Can. For. Serv., Sault Ste. Marie, Ont. 51 p.

Misc. Rep. No. 20. THOMSON, M.J., CZERWINSKI, E.J., MacLEOD, L.S. and JANSONS, V. 1985a. Results of forest insect and disease surveys in the Northeastern Region of Ontario, 1984. Gov't. of Can., Can. For. Serv., Sault Ste. Marie, Ont. 50 p.

Misc. Rep. No. 21. SAJAN, R.J. and SMITH, B.E. 1985. Results of forest insect and disease surveys in the Algonquin Region of Ontario, 1984. Gov't. of Can., Can. For. Serv., Sault Ste. Marie, Ont. 47 p.

Misc. Rep. No. 22. EVANS, H.J., SAJAN, R.J. and BRODERSEN, H. 1985. Results of forest insect and disease surveys in the Central Region of Ontario, 1984. Gov't. of Can., Can. For. Serv., Sault Ste. Marie, Ont. 35 p.

Misc. Rep. No. 23. BRODERSEN, H. and EVANS, H.J. 1985. Results of forest insect and disease surveys in the Southwestern Region of Ontario, 1984. Gov't. of Can., Can. For. Serv., Sault Ste. Marie, Ont. 25 p.

Misc. Rep. No. 24. INGRAM, W.A. 1985. Results of forest insect and disease surveys in the Eastern Region of Ontario, 1984. Gov't. of Can., Can. For. Serv., Sault Ste. Marie, Ont. 36 p.

Misc. Rep. No. 25. JOHNSON, J.D. 1985a. Backlog treatment as a means of reducing costs of delivered wood in northern Ontario. Gov't. of Can., Can. For. Serv., Sault Ste. Marie, Ont. 17 p.

Misc. Rep. No. 26. JOHNSON, J.D. 1985b. Medium-term market outlook for the Ontario newsprint industry. Gov't. of Can., Can. For. Serv., Sault Ste. Marie, Ont. 23 p.

Misc. Rep. No. 27. WEIR, H.J., THOMSON, M.J., CONSTABLE, D.C. and JONES, C.G. 1985. A review of important forest insect and disease problems in the Temagami District of Ontario, 1950-1980. Dep. Environ., Can. For. Serv., Sault Ste. Marie, Ont. 141 p. + appendices.

Misc. Rep. No. 28. WEIR, H.J., THOMSON, M.J., CONSTABLE, D.C. and JONES, C.G. 1985b. A review of important forest insect and disease problems in the Cochrane District of Ontario, 1950-1980. Gov't. of Can., Can. For. Serv., Sault Ste. Marie, Ont. 110 p. + appendices.

Misc. Rep. No. 29. THOMSON, M.J., CONSTABLE, D.C., EVANS, H.J., INGRAM, W.A. and MacLEOD, L.S. 1985. A review of important forest insect and disease problems in the Atikokan District of Ontario, 1950-1980. Dep. Environ., Can. For. Serv., Sault Ste. Marie, Ont. 100 p. + appendices.

Misc. Rep. No. 30. WEIR, H.J., THOMSON, M.J., CONSTABLE, D.C. and JONES, C.G. 1985a. A review of important forest insect and disease problems in the Blind River District of Ontario, 1950-1980. Gov't. of Can., Can. For. Serv., Sault Ste. Marie, Ont. 153 p. + appendices.

Misc. Rep. No. 31. ANDERSEN, S. and BROWNWRIGHT, A.J. 1985. Ontario pulp and paper industry: corporate ownership. Gov't of Can., Can. For. Serv., Sault Ste. Marie, Ont. 108 p.

Misc. Rep. No. 32. JÄÄSKELÄINEN, H.L., *Comp.* 1985. Environment 2000 program: Ontario Region, forestry sector. Final report. Gov't. of Can., Can. For. Serv., Sault Ste. Marie, Ont. 16 p.

Misc. Rep. No. 33. WEIR, H.J., THOMSON, M.J., CONSTABLE, D.C., and BRODERSEN, H. 1986. A review of important forest insect and disease problems in the Chapleau District of Ontario, 1950-1980. Gov't of Can., Can. For. Serv., Sault Ste. Marie, Ont. 103 p. + appendices.

Misc. Rep. No. 34. WEIR, H.J., THOMSON, M.J., CONSTABLE, D.C., and BRODERSEN, H. 1986. A review of important forest insect and disease problems in the Kirkland Lake District of Ontario, 1950-1980. Gov't of Can., Can. For. Serv., Sault Ste. Marie, Ont. 138 p. + appendices.

Misc. Rep. No. 35. WEIR, H.J., THOMSON, M.J., CONSTABLE, D.C., and BRODERSEN, H. 1986. A review of important forest insect and disease problems in the Kapuskasing District of Ontario, 1950-1980. Gov't of Can., Can. For. Serv., Sault Ste. Marie, Ont. 94 p. + appendices.

Misc. Rep. No. 36. CONSTABLE, D.C. and JANSONS, V. 1986. Results of forest insect and disease surveys in the Northwestern Region of Ontario, 1985. Gov't of Can., Can. For. Serv., Sault Ste. Marie, Ont. 32 p.

Misc. Rep. No. 37. BIGGS, W.D., and PAYNE, S.G. 1986. Results of forest insect and disease surveys in the North Central Region of Ontario, 1985. Gov't of Can., Can. For. Serv., Sault Ste. Marie, Ont. 34 p.

Misc. Rep. No. 38. MacLEOD, L.S., JONES, C.G. and KEIZER, A.J. 1986. Results of forest insect and disease surveys in the Northern Region of Ontario, 1985. Gov't of Can., Can. For. Serv., Sault Ste. Marie, Ont. 45 p.

Misc. Rep. No. 39. THOMSON, M.J., CZERWINSKI, E.J., MacLEOD, L.S. and PAYNE, S.G. 1986. Results of forest insect and disease surveys in the Northeastern Region of Ontario, 1985. Gov't of Can., Can. For. Serv., Sault Ste. Marie, Ont. 49 p.

Misc. Rep. No. 40. SAJAN, R.J. and SMITH, B.E. 1986. Results of forest insect and disease surveys in the Algonquin Region of Ontario, 1985. Gov't of Can., Can. For. Serv., Sault Ste. Marie, Ont. 45 p.

Misc. Rep. No. 41. EVANS, H.J., SAJAN, R.J. and BRODERSEN, H. 1986. Results of forest insect and disease surveys in the Central Region of Ontario. Gov't of Can., Can. For. Serv., Sault Ste. Marie, Ont. 35 p.

Misc. Rep. No. 42. BRODERSEN, H. and EVANS, H.J. 1986. Results of forest insect and disease surveys in the Southwestern Region of Ontario, 1985. Gov't of Can., Can. For. Serv., Sault Ste. Marie, Ont. 25 p.

Misc. Rep. No. 43. INGRAM, W.A. 1986. Results of forest insect and disease surveys in the Eastern Region of Ontario, 1985. Gov't of Can., Can. For. Serv., Sault Ste. Marie, Ont. 33 p.

Misc. Rep. No. 44. MACNAUGHTON, R.L., *Comp.* 1986. Unemployment Insurance/Job Creation Program - Forestry Sector in Ontario. Final Report. Gov't. of Can., Can. For. Serv., Sault Ste. Marie, Ont. 21 p. + appendices.

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